

### Claims

1. Material machining belt, especially a grinding or polishing belt, with a releasable shape-mated connection device on the end to form an endless belt, in which the shape-mated connection device is formed with a recess (11) with a closed edge on end (5) and a counterpiece (13) on the other end (7), characterized in that the recess (11) is designed as an elongated hole whose length (21) corresponds roughly to the width (23) of the material machining belt (1), and whose longitudinal axis (25) runs parallel to the long sides (27) of the material machining belt (1), in that the elongated hole has a first and a second region (29, 31), in which the expansion (37), in the transverse direction of the material machining belt (1), of the first region (29) is greater than the expansion (35) of the second region (31), and in that the first region (29) faces the end of the belt and the second region (31) faces away from the end of the belt.

2. Material machining belt according to Claim 1, characterized in that the first region (29) is essentially round.

3. Material machining belt according to Claim 1 or 2, characterized in that a surrounding region of elongated hole (11) and/or at least one counterpiece (13) is stiffened.

4. Material machining belt according to one of the preceding claims, characterized in that the surrounding region of at least one recess (11) and/or the at least one counterpiece (13) is coated with a hardening agent for stiffening.

### Summary

A material machining belt, especially a grinding or polishing belt, as well as a production method therefor, are described. The material machining belt is provided on its two ends with a releasable and recloseable shape-mated joint, which can be joined to form an endless belt. The shape-mated joint consists of a recess with a closed edge on one end of the material machining belt and a head-like counterpiece on the other end of the material machining belt. During operation, the material machining belt, closed into a ring with inward facing working surface, is placed around a drive roll, on the one hand, and around a workpiece, on the other.